Waukesha 4-H Project Guide



Category: Mechanical Sciences

4/2021

4-H Project Electricity	Subprojects under this project •
Things you might learn in this project:	 Understand how to use electricity and Identify electrical materials Wire a simple circuit; build a compass, flashlight, switch, electric motor. Learn to read circuit diagrams Build a circuit and measure voltages Develop a basic electrical tool and supply kit Understand the symbols on wires and cables Locate your home wiring system Identify electrical and electronic parts and devices Learn how to solder and prepare parts for assembly Assemble a circuit using a transistor Poster on career path for an electrician
Learning activities/ workshops/ field trip ideas:	 Interview an electrician Visit an electrician training facility Interview a WE Energies employee
Ideas of things you might exhibit in the fair:	 Circuit board – 6" by 6" of Series/Parallel Circuit Electromagnet Galvanometer Magnetic Powered Shake Flashlight – with display Electric Motor Wiring Project – (ie. extension cord, trouble light, wire sizes and uses, plug configurations, test equipment, etc.) Electrical tool and supply kit Question board or electronic game Homemade motor, buzzer, circuit tester, Lamp, extension cord, fuse display Poster or Display on elements of electrical engineering
Waukesha County Project Leaders:	King, Kevin 262-706-3570
References & Resource links:	 https://fyi.extension.wisc.edu/wi4hprojects/mechanical-sciences/electricity/ https://4-h.org/parents/curriculum/electricity-3/ https://we-energies.e-smartkids.com/ https://justenergy.com/blog/electricity-for-kids/ https://extension.purdue.edu/blackford/article/2276